62-302.530, Criteria for Surface Water Quality Classifications

				and Maintenance Balanced Popula	tion, Propagation of a Healthy, Well- ation of Fish and dlife		
Parameter	Units	Class I: Potable Water Supply	Class II: Shellfish Propagation or Harvesting	Predominantly Fresh Waters	Predominantly Marine Waters	Class IV: Agricultural Water Supplies	Class V: Naviga- tion, Utility, and Industrial Use
(1) Alkalinity	Milligrams/L as CaCO ₃	Shall not be depressed below 20		Shall not be depressed below 20		≤ 600	
(2) Aluminum	Milligrams/L		≤1.5		<u>≤</u> 1.5		
(3) Ammonia (un-ionized)	Milligrams/L as NH ₃	≤ 0.02		≤ 0.02			
(4) Antimony	Micrograms/L	≤ 14.0	≤4,300	≤4,300	≤4,300		
(5) (a) Arsenic (total)	Micrograms/L	≤ 50	≤ 50	≤50	≤50	≤50	≤50
(5) (b) Arsenic (trivalent)	Micrograms/L measured as total recoverable Arsenic		≤36		≤36		

Parameter	Units	Class I	Class II	Class III:	Class III: Marine	Class IV	Class V
				Fresh			
(6) Bacteriological Quality (Fecal Coli- form Bacteria)	Number per 100 ml (Most Probable Num- ber (MPN) or Membrane Filter (MF))	MPN or MF counts shall not exceed a monthly average of 200, nor exceed 400 in 10% of the samples, nor exceed 800 on any one day. Monthly averages shall be expressed as geometric means based on a minimum of 5 samples taken over a 30 day period.	MPN shall not exceed a median value of 14 with not more than 10% of the samples exceeding 43, nor exceed 800 on any one day.	MPN or MF counts shall not exceed a monthly average of 200, nor exceed 400 in 10% of the samples, nor exceed 800 on any one day. Monthly averages shall be expressed as geometric means based on a minimum of 10 samples taken over a 30 day period.	MPN or MF counts shall not exceed a monthly average of 200, nor exceed 400 in 10% of the samples, nor exceed 800 on any one day. Monthly averages shall be expressed as geometric means based on a minimum of 10 samples taken over a 30 day period.		
(7) Bacteriological Quality (Total Coliform Bacteria)	Number per 100 ml (Most Probable Num- ber (MPN) or Membrane Filter (MF))	≤1,000 as a monthly avg., nor exceed 1,000 in more than 20% of samples examined during any month, nor exceed 2,400 at any time, using either MPN or MF counts.	Median MPN shall not exceed 70, and not more than 10% of the samples shall exceed an MPN of 230.	≤ 1,000 as a monthly average; nor exceed 1,000 in more than 20% of the samples examined during any month; ≤ 2,400 at any time. Monthly averages shall be expressed as geometric means based on a minimum of 10 samples taken over a 30 day period, using either the MPN or MF counts.	≤ 1,000 as a monthly average; nor exceed 1,000 in more than 20% of the samples examined during any month; ≤ 2,400 at any time. Monthly averages shall be expressed as geometric means based on a minimum of 10 samples taken over a 30 day period, using either the MPN or MF counts.		
(8) Barium	Milligrams/L	<u>≤</u> 1					
(9) Benzene	Micrograms/L	<u>≤</u> 1.18	\leq 71.28 annual avg.	\leq 71.28 annual avg.	\leq 71.28 annual avg.		

Parameter	Units	Class I	Class II	Class III:	Class III: Marine	Class IV	Class V
				Fresh			
(10) Beryllium	Micrograms/L	≤ 0.0077 annual avg.	≤0.13 annual avg.	≤ 0.13 annual avg.	≤ 0.13 annual avg.	≤ 100 in waters with a hardness in mg/L of CaCO ₃ of less than 250 and shall not exceed 500 in harder waters	
(11) Biological Integrity	Per cent reduction of Shannon-Weaver Diversity Index	The Index for benthic macroinvertebrates shall not be reduced to less than 75% of background levels as measured using organisms retained by a U. S. Standard No. 30 sieve and collected and composited from a minimum of three Hester-Dendy type artificial substrate samplers of 0.10 to 0.15 m ² area each, incubated for a period of four weeks.	organisms retained by	The Index for benthic macroinvertebrates shall not be reduced to less than 75% of established background levels as measured using organisms retained by a U. S. Standard No. 30 sieve and collected and composited from a minimum of three Hester-Dendy type artificial substrate samplers of 0.10 to 0.15 m ² area each, incubated for a period of four weeks.	The Index for benthic macroinvertebrates shall not be reduced to less than 75% of established background levels as measured using organisms retained by a U. S. Standard No. 30 sieve and collected and composited from a minimum of three natural substrate samples, taken with Ponar type samplers with minimum sampling area of 225 cm ² .		
(12) BOD (Biochemical Oxygen Demand)		Shall not be i		nes which would cause on in no case, shall it be gr		depressed below the limusance conditions.	it established
(13) Boron	Milligrams/L					≤ 0.75	
(14) Bromates	Milligrams/L		<u>≤</u> 100		<u>≤</u> 100		
(15) Bromine (free molecular)	Milligrams/L		≤ 0.1		≤ 0.1		
(16) Cadmium	Micrograms/L See Notes (1) and (3).	Cd ≤ e(0.7852[lnH]-3.49)	≤9.3	Cd ≤ e(0.7852[lnH]-3.49)	≤9.3		

Parameter	Units	Class I	Class II	Class III: Fresh	Class III: Marine	Class IV	Class V
(17) Carbon tetra- chloride	Micrograms/L	≤ 0.25 annual avg.; 3.0 max	≤ 4.42 annual avg.	< 4.42 annual avg.	≤ 4.42 annual avg.		
(18) Chlorides	Milligrams/L	≤ 250	Not increased more than 10% above normal background. Normal daily and sea- sonal fluctuations shall be maintained.		Not increased more than 10% above normal background. Normal daily and sea- sonal fluctuations shall be maintained.		In predominantly marine waters, not increased more than 10% above normal background. Normal daily and seasonal fluctuations shall be maintained.
(19) Chlorine (total residual)	Milligrams/L	≤ 0.01	≤ 0.01	≤ 0.01	≤ 0.01		
(20) (a) Chromium (trivalent)	Micrograms/L measured as total recoverable Chromium See Notes (1) and (3).	$ \frac{\text{Cr (III)} \leq}{e^{(0.819[\ln H]+0.6848)}} $		$ \frac{\text{Cr (III)} \leq}{e^{(0.819[\ln H]+0.6848)}} $		$ \frac{\text{Cr (III)} \leq}{e^{(0.819[\ln H]+0.6848)}} $	In predominantly fresh waters, \leq $e^{(0.819[lnH]+0.6848)}$
(20) (b) Chromium (hexavalent)	Micrograms/L See Note (3).	≤11	≤ 50	≤11	≤ 50	≤11	In predominantly fresh waters, ≤ 11. In predominantly marine waters, ≤ 50
(21) Chronic Toxicity (see definition in Section 62- 302.200(3), F.A.C. and also see below, "Substances in concentrations which")							

Parameter	Units	Class I	Class II	Class III:	Class III: Marine	Class IV	Class V
				Fresh			
(22) Color, etc. (see also Minimum Crite- ria, Odor, Phenols, etc.)	Color, odor, and taste producing substances and other deleterious substances, including other chemical compounds attributable to domestic wastes, industrial wastes, and other wastes					Only such amounts as will not render the waters unsuitable for agricultural irrigation, livestock watering, industrial cooling, industrial process water supply purposes, or fish survival.	
(23) Conductance, Specific	Micromhos/cm	Shall not be increased more than 50% above background or to 1275, whichever is greater		Shall not be increased more than 50% above background or to 1275, whichever is greater		Shall not be increased more than 50% above background or to 1275, whichever is greater	
(24) Copper	Micrograms/L See Notes (1) and (3).	$Cu \le e^{(0.8545[lnH]-1.702)}$	≤ 3.7	Cu ≤ e ^(0.8545[lnH]-1.702)	≤ 3.7	≤ 500	≤ 500
(25) Cyanide	Micrograms/L	≤ 5.2	≤1.0	<u>≤</u> 5.2	≤1.0	≤ 5.0	≤ 5.0
(26) Definitions (see Section 62-302.200, F.A.C.)							
(27) Detergents	Milligrams/L	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
(28) 1,1-Dichloroeth- ylene (1,1-di-chlo- roethene)	Micrograms/L	\leq 0.057 annual avg.; \leq 7.0 max	≤ 3.2 annual avg.	≤3.2 annual avg.	≤ 3.2 annual avg.		
(29) Dichloromethane (methylene chloride)	Micrograms/L	\leq 4.65 annual avg.	\leq 1,580 annual avg.	\leq 1,580 annual avg.	\leq 1,580 annual avg.		
(30) 2,4-Dinitrotoluene	Micrograms/L	\leq 0.11 annual avg.	\leq 9.1 annual avg.	\leq 9.1 annual avg.	\leq 9.1 annual avg.		

Parameter	Units	Class I	Class II	Class III:	Class III: Marine	Class IV	Class V
				Fresh			
(31) Dissolved Oxygen	Milligrams/L	Shall not be less than 5.0. Normal daily and seasonal fluctuations above this level shall be maintained.	Shall not average less than 5.0 in a 24-hour period and shall never be less than 4.0. Normal daily and seasonal fluctuations above these levels shall be maintained.	5.0. Normal daily and seasonal fluctuations above these	than 5.0 in a 24-hour period and shall never	period and shall never be less than 3.0.	Shall not be less than 0.3, fifty percent of the time on an annual basis for flows greater than or equal to 250 cubic feet per second and shall never be less than 0.1. Normal daily and seasonal fluctuations above these levels shall be maintained.
(32) Dissolved Solids	Milligrams/L	\leq 500 as a monthly avg.; \leq 1,000 max					
(33) Fluorides	Milligrams/L	≤ 1.5	≤ 1.5	≤ 10.0	≤ 5.0	≤ 10.0	<u>≤</u> 10.0
(34) "Free Froms" (see Minimum Criteria in Section 62- 302.500, F.A.C.)							
(35) "General Criteria" (see Section 62-302.510, F.A.C. and individual criteria)							

Parameter	Units	Class I	Class II	Class III:	Class III: Marine	Class IV	Class V
				Fresh			
(36) (a) Halomethanes (Total trihalomethanes) (total of bromoform, chlorodibromomethane, dichlorobromome-thane, and chloroform). Individual halomethanes shall not exceed (b)1. to (b)5. below.	Micrograms/L	≤ 100					
(36) (b) 1. Halomethanes (individual): Bromoform	Micrograms/L	\leq 4.3 annual avg.	≤ 360 annual avg.	≤ 360 annual avg.	≤ 360 annual avg.		
(36) (b) 2. Halomethanes (individual): Chlorodibromomethane	Micrograms/L	≤ 0.41 annual avg.	≤ 34 annual avg.	≤ 34 annual avg.	≤ 34 annual avg.		
(36) (b) 3. Halomethanes (individual): Chloroform	Micrograms/L	≤ 5.67 annual avg.	\leq 470.8 annual avg.	\leq 470.8 annual avg.	\leq 470.8 annual avg.		
(36) (b) 4. Halomethanes (individual): Chloromethane (methyl chloride)	Micrograms/L	≤ 5.67 annual avg.	\leq 470.8 annual avg.	\leq 470.8 annual avg.	≤470.8 annual avg.		
(36) (b) 5. Halomethanes (individual): Dichlorobromo-methane	Micrograms/L	\leq 0.27 annual avg.	≤ 22 annual avg.	≤ 22 annual avg.	≤ 22 annual avg.		
(37) Hexachlorobuta- diene	Micrograms/L	\leq 0.45 annual avg.	≤49.7 annual avg.	\leq 49.7 annual avg.	\leq 49.7 annual avg.		

Parameter	Units	Class I	Class II	Class III: Fresh	Class III: Marine	Class IV	Class V
(38) Imbalance (see Nutrients)							
(39) Iron	Milligrams/L	≤ 0.3	≤ 0.3	<u>≤</u> 1.0	≤ 0.3	<u>≤</u> 1.0	
(40) Lead	Micrograms/L See Notes (1) and (3).	Pb \(\leq\) e(1.273[lnH]- 4.705)	≤ 8.5	Pb ≤ e(1.273 [lnH] -4.705)	≤ 8.5	≤50	≤ 50
(41) Manganese	Milligrams/L		<u>≤</u> 0.1				
(42) Mercury	Micrograms/L	≤ 0.012	≤ 0.025	≤ 0.012	≤ 0.025	<u>≤</u> 0.2	≤ 0.2
(43) Minimum Criteria (see Section 62-302. 500, F.A.C.)							
(44) Mixing Zones (See Section 62- 4.246, F.A.C.)							
(45) Nickel	Micrograms/L See Notes (1) and (3).	$\begin{array}{l} \text{Ni} \leq \\ e^{(0.846[\ln H] + 0.0584)} \end{array}$	≤8.3	$Ni \le e^{(0.846[lnH]+0.0584)}$	≤ 8.3	≤ 100	
(46) Nitrate	Milligrams/L as N	≤ 10 or that con- centration that exceeds the nutrient criteria					
(47) Nuisance Species		Subs	tances in concentration	ons which result in the do	minance of nuisance spe	cies: none shall be pro	esent.
(48) (a) Nutrients		The discharge of nutrients shall continue to be limited as needed to prevent violations of other standards contained in this chapter. Man-induced nutrient enrichment (total nitrogen or total phosphorus) shall be considered degradation in relation to the provisions of Sections 62-302.300, 62-302.700, and 62-4.242, F.A.C.					
(48) (b) Nutrients		In no case shall nutrient concentrations of a body of water be altered so as to cause an imbalance in natural populations of aquatic flora or fauna.					

Parameter	Units	Class I	Class II	Class III:	Class III: Marine	Class IV	Class V
				Fresh			
(49) Odor (also see Color, Minimum Criteria, Phenolic Compounds, etc.)	Threshold odor number		Shall not exceed 24 at 60 degrees C as a daily average.				Odor producing substances: only in such amounts as will not unreasonably interfere with use of the water for the designated purpose of this classification.
(50) (a) Oils and Greases	Milligrams/L	Dissolved or emulsified oils and greases shall not exceed 5.0	Dissolved or emulsified oils and greases shall not exceed 10.0				
(50) (b) Oils and Greases		No undissolved oi with the beneficial		as iridescence, shall be j	present so as to cause ta	ste or odor, or otherwis	e interfere
(51) Pesticides and Herbicides							
(51) (a) 2,4,5-TP	Micrograms/L	≤ 10					
(51) (b) 2-4-D	Micrograms/L	<u>≤</u> 100					
(51) (c) Aldrin	Micrograms/L	≤ .00013 annual avg.; 3.0 max	≤ .00014 annual avg.; 1.3 max	≤ .00014 annual avg.; 3.0 max	≤.00014 annual avg.; 1.3 max		
(51) (d) Beta- hexachlorocyclo- hexane (b-BHC)	Micrograms/L	≤ 0.014 annual avg.	≤ 0.046 annual avg.	≤ 0.046 annual avg.	≤0.046 annual avg.		
(51) (e) Chlordane	Micrograms/L	\leq 0.00058 annual avg.; 0.0043 max	≤ 0.00059 annual avg.; 0.004 max	≤ 0.00059 annual avg.; 0.0043 max	≤ 0.00059 annual avg.; 0.004 max		
(51) (f) DDT	Micrograms/L	≤0.00059 annual avg.; 0.001 max	≤ 0.00059 annual avg.; 0.001 max	≤ 0.00059 annual avg.; 0.001 max	≤ 0.00059 annual avg.; 0.001 max		
(51) (g) Demeton	Micrograms/L	<u>≤</u> 0.1	≤ 0.1	<u>≤</u> 0.1	≤ 0.1		

Parameter	Units	Class I	Class II	Class III:	Class III: Marine	Class IV	Class V
				Fresh			
(51) (h) Dieldrin	Micrograms/L	≤0.00014 annual avg.; 0.0019 max	\leq 0.00014 annual avg.; 0.0019 max	≤ 0.00014 annual avg.; 0.0019 max	≤ 0.00014 annual avg.; 0.0019 max		
(51) (i) Endosulfan	Micrograms/L	≤ 0.056	≤ 0.0087	≤ 0.056	≤ 0.0087		
(51) (j) Endrin	Micrograms/L	≤ 0.0023	≤ 0.0023	≤ 0.0023	≤ 0.0023		
(51) (k) Guthion	Micrograms/L	<u>≤</u> 0.01	≤ 0.01	≤ 0.01	≤ 0.01		
(51) (l) Heptachlor	Micrograms/L	≤ 0.00021 annual avg.; 0.0038 max	≤0.00021 annual avg.; 0.0036 max	≤ 0.00021 annual avg.; 0.0038 max	≤ 0.00021 annual avg.; 0.0036 max		
(51) (m) Lindane (g- benzene hexachloride)	Micrograms/L	≤ 0.019 annual avg.; 0.08 max	\leq 0.063 annual avg.; 0.16 max	≤ 0.063 annual avg.; 0.08 max	≤ 0.063. annual avg.; 0.16 max		
(51) (n) Malathion	Micrograms/L	<u>≤</u> 0.1	≤ 0.1	<u>≤</u> 0.1	≤ 0.1		
(51) (o) Methoxychlor	Micrograms/L	≤ 0.03	≤ 0.03	≤ 0.03	≤ 0.03		
(51) (p) Mirex	Micrograms/L	<u>≤</u> 0.001	≤ 0.001	≤ 0.001	<u>≤</u> 0.001		
(51) (q) Parathion	Micrograms/L	≤ 0.04	≤ 0.04	≤ 0.04	<u>≤</u> 0.04		
(51) (r) Toxaphene	Micrograms/L	≤ 0.0002	≤ 0.0002	≤ 0.0002	≤ 0.0002		
(52) (a) pH (Class I and Class IV Waters)	Standard Units	above 8.5 units. If natu	ural background is less and. If natural background.	than 6 units, the pH sha	l provided that the pH is ll not vary below natura nits, the pH shall not var	l background or vary n	nore than one unit
(52) (b) pH (Class II Waters)	Standard Units	more than two-tenths u the pH is not lowered t below natural background for natural background for	unit above or below natural to less than 6.5 units or a unit or vary more than or open waters. If natural	ural background of oper raised above 8.5 units. I one unit above natural b background is higher the	of coastal waters as defined in Sefin waters as defined in Sefinatural background is ackground for coastal whan 8.5 units, the pH share than two-tenths unit before the state of the state	ection 62-302.520(3)(f) less than 6.5 units, the vaters or more than two all not vary above nature	pH shall not vary tenths unit above ral background or vary

Parameter	Units	Class I	Class II	Class III:	Class III: Marine	Class IV	Class V			
				Fresh						
(52) (c) pH (Class III Waters)	Standard Units	Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in Section 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in Section 62 302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.								
(52) (d) pH (Class V Waters)	Standard Units	Not lower than 5.0 nor	greater than 9.5 except	t certain swamp waters v	which may be as low as	4.5.				
(53)(a) Phenolic Compounds: Total				ed by the natural decay of or odor in a drinking w		or unlisted, shall not tai	nt the flesh of edible			
(53) (b) Phenolic Compounds: Total	Micrograms/L	1. The total of all chlorinated phenols, and chlorinated cresols, except as set forth in (c) 1. to (c) 4. below, shall not exceed 1.0 unless higher values are shown not to be chronically toxic. Such higher values shall be approved in writing by the Secretary. 2. The compounds listed in (c) 1. to (c) 6. below shall not exceed the limits specified for each compound. 1. The total of the following Phenolic compounds shall not exceed 50: a) Chlorinated phenols; b) Chlorinated cresols; and								
(53) (c) 1. Phenolic	Micrograms/L	≤ 120	< 400	< 400	< 400	< 400	c) 2,4-dinitrophenol.			
Compound: 2- chlorophenol	Wilciograms/L	<u> </u>	See Note (2).	See Note (2).	See Note (2).	See Note (2).				
(53) (c) 2. Phenolic Compound: 2,4- dichlorophenol	Micrograms/L	< 93 See Note (2).	< 790 See Note (2).	< 790 See Note (2).	< 790 See Note (2).	< 790 See Note (2).				
(53) (c) 3. Phenolic Compound: Penta- chlorophenol	Micrograms/L	\leq 30 max; \leq 0.28 annual avg; \leq e(1.005[pH]-5.29)	≤7.9	\leq 30 max; \leq 8.2 annual avg; \leq e ^(1.005[pH]-5.29)	≤7.9	<u>≤</u> 30				
(53) (c) 4. Phenolic Compound: 2,4,6- trichlorophenol	Micrograms/L	≤2.1 annual avg.	\leq 6.5 annual avg.	≤ 6.5 annual avg.	\leq 6.5 annual avg.	\leq 6.5 annual avg.				

Parameter	Units	Class I	Class II	Class III: Fresh	Class III: Marine	Class IV	Class V
(53) (c) 5. Phenolic Compound: 2,4-dinitrophenol	Milligrams/L	≤ 0.0697 See Note (2).	≤ 14.26 See Note (2).	≤ 14.26 See Note (2).	≤ 14.26 See Note (2).	≤ 14.26 See Note (2).	
(53) (c) 6. Phenolic Compound: Phenol	Milligrams/L	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
(54) Phosphorus (Elemental)	Micrograms/L		≤ 0.1		≤ 0.1		
(55) Phthalate Esters	Micrograms/L	≤3.0		<u>≤</u> 3.0			
(56) Polychlorinated Biphenyls (PCBs)	Micrograms/L	≤ 0.000044 annual avg.; 0.014 max	\leq 0.000045 annual avg.; 0.03 max	\leq 0.000045 annual avg.; 0.014 max	≤ 0.000045 annual avg.; 0.03 max		
(57) (a) Polycyclic Aromatic Hydrocar- bons (PAHs). Total of: Acenaphthylene; Benzo(a)anthracene; Benzo(b)fluoran- thene; Benzo- (ghi)perylene; Benzo(k)fluoranth- ene; Chrysene; Dibenzo-(a,h)anthra- cene; Indeno(1,2,3- cd)pyrene; and Phenanthrene	Micrograms/L	≤ 0.0028 annual avg.	\leq 0.031 annual avg.	≤ 0.031annual avg.	≤0.031 annual avg.		
(57) (b) 1 (Individual PAHs): Acenaphthene	Milligrams/L	< 1.2 See Note (2).	< 2.7 See Note (2).	< 2.7 See Note (2).	< 2.7 See Note (2).		
(57) (b) 2. (Individual PAHs): Anthracene	Milligrams/L	< 9.6 See Note (2).	< 110 See Note (2).	< 110 See Note (2).	< 110 See Note (2).		
(57) (b) 3. (Individual PAHs): Fluoranthene	Milligrams/L	< 0.3 See Note (2).	< 0.370 See Note (2).	< 0.370 See Note (2).	< 0.370 See Note (2).		

Parameter	Units	Class I	Class II	Class III: Fresh	Class III: Marine	Class IV	Class V			
(57) (b) 4. (Individual PAHs): Fluorene	Milligrams/L	< 1.3 See Note (2).	< 14 See Note (2).	< 14 See Note (2).	< 14 See Note (2).					
(57) (b) 5. (Individual PAHs): Pyrene	Milligrams/L	< 0.96 See Note (2).	< 11 See Note (2).	< 11 See Note (2).	< 11 See Note (2).					
(58) (a) Radioactive substances (Combined radium 226 and 228)	Picocuries/L	≤5	≤5	≤5	≤5	≤5	≤5			
(58) (b) Radioactive substances (Gross alpha particle activity including radium 226, but excluding radon and uranium)	Picocuries/L	≤15	≤ 15	≤15	≤15	≤15	≤15			
(59) Selenium	Micrograms/L	<u>≤</u> 5.0	<u>≤</u> 71	<u>≤</u> 5.0	<u>≤</u> 71					
(60) Silver	Micrograms/L See Note (3).	≤ 0.07	See Minimum criteria in Section 62- 302.500(3)	≤ 0.07	See Minimum criteria in Section 62- 302.500(3)					
(61) Specific Conductance (see Conductance, Specific, above)										
(62) Substances in concentrations which injure, are chronically toxic to, or produce adverse physiological or behavioral response in humans, plants, or animals		None shall be present.								

Parameter	Units	Class I	Class II	Class III:	Class III: Marine	Class IV	Class V
				Fresh			
(63) 1,1,2,2-Tetra- chloroethane	Micrograms/L	\leq 0.17 annual avg.	\leq 10.8 annual avg.	\leq 10.8 annual avg.	\leq 10.8 annual avg.		
(64) Tetrachloroethylene (1,1,2,2-tetrachloroethene)	•	\leq 0.8 annual avg., \leq 3.0 max	\leq 8.85 annual avg.	\leq 8.85 annual avg.	≤ 8.85 annual avg.		
(65) Thallium	Micrograms/L	< 1.7	< 6.3	< 6.3	< 6.3		
(66) Thermal Criteria (See Section 62- 302.520)							
(67) Total Dissolved Gases	Percent of the saturation value for gases at the existing atmospheric and hydrostatic pressures	≤110% of saturation value	≤110% of saturation value	≤ 110% of saturation value	≤110% of saturation value		
(68) Transparency	Depth of the com- pensation point for photosynthetic activity	Shall not be reduced by more than 10% as compared to the natural background value.	Shall not be reduced by more than 10% as compared to the natural background value.	Shall not be reduced by more than 10% as compared to the natural background value.	Shall not be reduced by more than 10% as compared to the natural background value.		
(69) Trichloroethylene (trichloroethene)	Micrograms/L	\leq 2.7 annual avg., \leq 3.0 max	\leq 80.7 annual avg.	\leq 80.7 annual avg.	≤ 80.7 annual avg.		
(70) Turbidity	Nephelometric Turbidity Units (NTU)	≤ 29 above natural background conditions	≤ 29 above natural background conditions	≤29 above natural background conditions	≤ 29 above natural background conditions	≤29 above natural background conditions	≤ 29 above natural background conditions
(71) Zinc	Micrograms/L See Notes (1) and (3).	$Zn \le e^{(0.8473[lnH]+0.884)}$	≤ 86	$Zn \le e^{(0.8473[lnH]+0.884)}$	≤ 86	≤ 1,000	≤ 1,000